Meeting Times
Sec. F1 6/24 - 8/14 MTWTh 10:10am - 12:10pm ARC-333 (BUS)

Lecturer
Name: Joseph Guadagni (Dr. G)
Email: joseph.guadagni@rutgers.edu
Office hours: MTWTh, 2:40pm - 3:40pm, Hill-215 (BUS)
Text: phone number is on Canvas course site
Web Page: https://sites.math.rutgers.edu/~jg1314/

Yes, you may text me with questions. General rule is that if you text after midnight, you will likely not get a response until the next day. Same rules for email. Please identify yourself the first time you text me. Do not worry: I will not text you except in response to your questions.

Textbook
You may also use the 3rd edition. Just be aware the section numbers used in this course will follow the 4th edition.

SAS Core Curriculum Goals
This course fulfills both the Quantitative Information (QQ) and Mathematical or Formal Reasoning (QR) learning goals of the SAS Core Curriculum:

- **QQ**: Formula, evaluate, and communicate conclusions and inferences from quantitative information.
- **QR**: Apply effective and efficient mathematical or other formal processes to reason and to solve problems.

Important Dates
No classes: Thursday, July 4
In-class midterm #1: Monday, July 15
In-class midterm #2: Thursday, August 1
Final exam: Wednesday, August 14, 12:20pm - 3:20pm, SEC-209 (BUS)

Web Page
All general course materials (e.g., worksheets, sample quizzes, sample exams, syllabus, etc.) can be found on my personal teaching page:

https://sites.math.rutgers.edu/~jg1314/math251.html

Certain course materials (e.g., current quiz solutions, workshop assignments, grades, etc.) can be found on the Canvas course page. General information about this course can also be found on the mathematics department course page:

https://www.math.rutgers.edu/academics/undergraduate/courses

Navigate to “01:640:251 - Multivariable Calculus”. You should read the entire contents of this web page.
**Format**
Each class meeting will be divided into two portions:

- (80 mins.) Lecture on current topic, taught with a mix of both traditional and active-learning techniques.
- (40 mins.) Recitation on previous day’s topic, taught in a workshop-style format in which you work in small groups to solve practice exercises. A quiz will be given at the end of each recitation for 15 minutes.

A short video lecture (about 15 mins.) will also be assigned in Canvas before each lecture, which serves as an introduction to the next lecture topic. It is imperative that you watch these videos as the next day’s lecture will assume you have watched the corresponding video carefully. Following each video, you will complete a short “video comprehension quiz” that covers the material in the video.

**Grading**

<table>
<thead>
<tr>
<th>TOTAL:</th>
<th>550 course points</th>
<th>100.00%</th>
</tr>
</thead>
<tbody>
<tr>
<td>WebAssign (online homework):</td>
<td>40 course points</td>
<td>7.27%</td>
</tr>
<tr>
<td>Lab Assignments:</td>
<td>30 course points</td>
<td>5.45%</td>
</tr>
<tr>
<td>Quizzes:</td>
<td>80 course points</td>
<td>14.55%</td>
</tr>
<tr>
<td>Midterm #1:</td>
<td>100 course points</td>
<td>18.18%</td>
</tr>
<tr>
<td>Midterm #2:</td>
<td>100 course points</td>
<td>18.18%</td>
</tr>
<tr>
<td>Final Exam:</td>
<td>200 course points</td>
<td>36.36%</td>
</tr>
</tbody>
</table>

**WebAssign:**
Please see the document “Gaining Access to WebAssign” for details on accessing WebAssign. Late submissions will not be accepted.

**Lab Assignments:**
There will be 3 lab assignments throughout the course, which must be completed with your choice of either Maple or Matlab. The preferred platform is Matlab, which is available for free to students via the Rutgers Software Library. Late submissions will not be accepted.

**Quizzes:**
There will be a written quiz in class at the end of most class meetings, and 26 such quizzes are scheduled (each worth 10 quiz points). Your lowest 2 quizzes will be dropped. In addition, successful completion of one “video comprehension quiz” (24 are scheduled) will earn you 1 point in your total quiz grade (up to 24 out of 240 quiz points). Your total out of 240 quiz points will then be scaled to 80 course points to determine your quiz grade for the course. There will be no make-up quizzes for any reason. If you must miss a quiz for a truly compelling and documented reason, then you will be excused from that quiz.

**Midterms:**
A formula sheet will be provided, but notes, calculators, and electronic devices are not allowed. There will be no make-up exams for any reason. If you must miss an exam for a truly compelling and documented reason, then your score on the final exam will count for more of your total grade to make up for the missed exam.

**Final Exam:**
The final exam is cumulative. A formula sheet will be provided. The date and time are determined by the university and cannot be changed. You cannot be excused from the final exam for any reason.
Final Grades

Your final letter grade will be determined by your course grade and cutoffs that I set for the class.

<table>
<thead>
<tr>
<th>Letter grade</th>
<th>Minimum course grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90%</td>
</tr>
<tr>
<td>B+</td>
<td>84%</td>
</tr>
<tr>
<td>B</td>
<td>78%</td>
</tr>
<tr>
<td>C+</td>
<td>72%</td>
</tr>
<tr>
<td>C</td>
<td>66%</td>
</tr>
<tr>
<td>D</td>
<td>60%</td>
</tr>
</tbody>
</table>

The final distribution may have slightly different cutoffs but they will only go down. In other words, these cutoffs are the harshest cutoffs possible and any changes to them will only help you. However, do not plan on these cutoffs changing.

Integrity

All students in the course are expected to be familiar with and abide by the academic integrity policy, which can be found at

http://academicintegrity.rutgers.edu/academic-integrity-at-rutgers

Violations of the policy are taken very seriously.

Testing Services

Full disability policies and procedures are indicated at

http://ods.rutgers.edu

Students with disabilities requesting accommodations must present a Letter of Accommodations to me as early in the term as possible. See

https://ods.rutgers.edu/my-accommodations/letter-of-accommodations

For students on the autism spectrum, Rutgers University has several services that offer support for social skills, academic skills, self-care, etc. through the College Support Program (CSP).

Mental Health

College is a very stressful time for many of you, and not everyone has a good support system. Unfortunately, a lot of new students also often do not know the resources available to them. Many of you will also cope by self-medicating, usually with alcohol. If you are looking for support, you can check the many resources at

http://health.rutgers.edu/

You should particularly use these services if you are seeking counseling or if you are concerned about your drinking or substance abuse (or that of a friend). If you need emergency support, call 911 or the National Suicide Prevention Lifeline at 1-800-273-TALK. You can also feel free to come to me if you are having difficulty, and I can help you find the proper support. (Anything you tell me is kept in confidence.) Please let someone know if you are in crisis.
Frequently Asked Questions:

- **How can I reach you with questions?**
  The best way to get help is to see me in person during office hours. You do not need to make an appointment; just show up during the allotted period at any time. If you cannot make office hours, you should email or text me with general questions. If you have a question about a specific WebAssign problem, click on “Ask Your Teacher” for that problem and send your question (you should explain your confusion and describe any work you have already done). This message goes directly to me, and I will be able to answer your question directly through WebAssign.

  If you decide to text me for any reason, please be sure to identify yourself the first time you text me. If you are texting with a question on a specific problem, also please include a picture or screenshot of the work you have already done.

- **Is this class graded on a curve? What does that even mean?**
  If a class is graded on a curve, then a fixed and pre-determined percentage of students taking that course get each letter grade. That is, quotas are set for each letter grade, with no regard for actual achievement. For instance, a professor who grades a course on a curve may decide that the top 10% of students get A’s, the next top 10% get B+, and so on. It may turn out that the top 10% of scores in the class are all 94% or above, or maybe 78% or above.

  *This class is not graded on a curve.* Not in any semester. Letter grades in Math 251 are not given out by quotas but rather determined by absolute achievement standards. These standards are summarized below, where “the next course” means “a course that has Math 251 as a prerequisite”.

  - **A:** The student has exhibited mastery of almost all topics in Math 251 and is well-prepared for the next course.
  - **B:** The student has exhibited mastery of some topics in Math 251 and proficiency in others and is prepared for the next course.
  - **C:** The student has exhibited proficiency in most topics in Math 251 and may succeed in the next course with some extra self-study.
  - **D:** The student has exhibited proficiency in few topics in Math 251 and success in the next course is unlikely without extensive additional study. Degree credit may be awarded but moving on to the next course is not recommended.
  - **F:** The student has not shown sufficient proficiency in Math 251 to be successful in the next course.

  In principle, all students could earn A if they all meet the above standard. Same for the grade of F. This course is not graded on a curve. It is also important to understand that there are no university standards for letter grades. That is, it is not true that 90% entitles you to a grade of A and it is not true that 60% entitles you to pass.

- **I scored above average on the exams, but I still failed!**
  Since the course is not graded on a curve, it is well possible to score better than the class average yet still earn a final letter grade of F. It is an extremely common misconception of students that earning scores above or below the class median or class average entitles one to a certain grade.